E-Band Bismuth-doped Fiber Amplifier

Amonics
Specialist in Optical Amplifiers

Others

Key Features

- High output power > 23 dBm
- Similar gain & noise figure as typical EDFA
- Lower power consumption compared to conventional Raman amplifier
- Distortion-free amplification

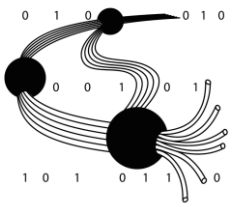
2U Rackmount Casing

Description

Amonics' E-Band Bismuth-doped fiber amplifier (BDFA) uses bismuth-doped fiber as the gain medium. The BDFA features high small signal gain and low noise figure. The silica-based Bismuth-doped fiber offers the similar fundamental advantages as erbium-doped fiber used for amplification in the C and L bands. The E-band BDFA are available to fulfill the increasing bandwidth demands.

The turnkey microprocessor-controlled BDFAs provide illustrative alarms and status indicators. An integrated RS232 computer interface enables easy control, diagnostic functions and data acquisition. The BDFAs are available in both benchtop and rackmount casings.

Application



- Datacom Network

ISO 9001 : 2015
Certificate No.: CC 5346

Our product is manufactured under a HKQAA ISO 9001 certified quality management system. The ISO 9001:2015 certification applies to the Hong Kong production site only.

E-Band Bismuth-doped Fiber Amplifier

Specifications

Model	ABDFA-E-23
Operating Wavelength	1425 nm to 1465 nm
Input Signal Level	-30 to 0 dBm
Output Power @ 0 dBm input power	Min. 23 dBm
Noise Figure @ -10 dBm input power, 1445 nm	Max. 7.0 dB
Input / Output Isolation	Min. 30 dB
Control Mode	ACC, APC (optional)

General Parameters

	Value
Operation Temperature	0 to +40 ˚C
Storage Temperature	-10 to +70 ˚C
Power Supply	90 – 240 VAC, 47 – 63 Hz
Dimensions	485(W) x 360(D) x 90(H) mm
Mechanical Safety Control	Key-lock switch, BNC interlock key
Optical Power Monitoring	Output power, Input power
Remote Control Port	DB-9 female (RS232), Control software included, RJ-45 (TCP/IP Ethernet) (optional)
Protection	Pump laser (TEC) overheat
Optical Connector	FC/APC, FC/UPC, SC/APC, SC/UPC
Optical Fiber	SMF-28

Ordering Information

Product Code	ABDFA-E-aa-b-cc	aa : Saturation output power in dBm b : R for 19" Rackmount cc : FA for FC/APC, FC for FC/UPC, SA for SC/APC, SC for SC/UPC

Amonics undertakes continuous and intensive product development to ensure its product performance at the highest technical standards. As a result, the specifications in this document are subject to change without notice.

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